

ABSTRACT

2 A measuring gage for determining the thickness of a non-metallic material
3 utilizes an inductive sensor positioned on one side of the material to be measured and a
4 metallic object placed on the opposite side. The output of the sensor is used to
5 determine the distance between the sensor and the metallic object, and hence the
6 thickness of the material. The movement of the sensor and the metallic object can be
7 computer controlled to map the thickness of the material along a predetermined path and
8 produce a cross-sectional thickness profile. The output of the sensor can be used in
9 conjunction with a computer controller responsible for adjusting the size of a score line
10 to prepare an airbag deployment section in a vehicle trim panel.